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ASSIGNMENTS  
OF  
SOIL SURVEY PARTIES  
FOR THE  
FIELD SEASON OF 1904

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AUGUST 25, 1904.

# United States Department of Agriculture,

## BUREAU OF SOILS.

### ASSIGNMENTS OF SOIL-SURVEY PARTIES FOR THE FIELD SEASON, 1904.

The following changes are made in the assignments of the soil-survey parties for the field season of 1904 to meet the exigencies of the public service, and are issued as an amendment to the assignment cards of March 10, May 4, and June 9, 1904.

1. Bennett, F., jr., and Griffen, A. M., will continue the survey of Orangeburg County, South Carolina, and complete that portion of the county east of Orangeburg. On September 1 Mr. Bennett and Mr. Ely will proceed to Plymouth, Ind., and survey Marshall County. On October 1 Mr. Griffen will relieve Mr. Jones in Louisiana.

2. Bonsteel, F. E., and Carr, E. P., will proceed to Providence, R. I., and survey the entire State. Upon the completion of this area the party will proceed to Florence, Ala., and survey the middle part of Lauderdale County.

3. Bonsteel, J. A., will continue his soil instruction work at Cornell University, and, in addition, will have general charge of the soil survey in New York, and survey the Dryden U. S. G. S. sheet.

4. Burgess, J. L., and Tharp, W. E., will finish the Garden City, Kans., area about June 30. On July 1 Mr. Burgess will join Mr. Fippin in the survey of Towner County, N. Dak., and Mr. Tharp will join Mr. Drake in the survey of Allen County, Kans. On October 1 Mr. Burgess and Mr. Tharp will go to Hiawatha, Kans., and survey Brown County.

5. Burke, R. T. A., and Root, A. S., will proceed to Hampton, Va., and survey Warwick, York, Elizabeth City, and James City counties. July 1 Mr. Wheeler will relieve Mr. Root, and the party will proceed to Gloucester, Va., and survey Gloucester County. Upon the completion of this area the party will proceed to Fredericks Hall, Va., and survey the northern part of the Goochland quadrangle. July 1 Mr. Root will relieve Mr. Bennett in South Carolina.

6. Caine, T. A., and Lyman, W. S., will proceed to Wooster, Ohio, and survey the Wooster and Massillon U. S. G. S. sheets. July 1 the party will proceed to Superior, Wis., and survey as large an area as possible around Superior, Wis., and Duluth, Minn. October 1 the party will proceed to Appomattox, Va., and survey Appomattox County.

7. Carr, M. E., and Belden, H. L., will proceed October 1 to Marshall, Mo., and survey Saline County.

8. Carter, W. T., jr., and Kocher, A. E., will continue the survey of Anderson County, Texas. Upon the completion of this county the party will proceed to Crockett, Texas, and survey Houston County.

9. Drake, J. A., and Tharp, W. E., will proceed to Iola, Kans., and survey Allen County. Upon the completion of this area Mr. Drake and Mr. Strahorn will proceed to Marshfield, Mo., and survey Webster County. Mr. Tharp will join Mr. Burgess in the survey of Brown County, Kans.

10. Ely, C. W., and Hurst, L. A., will complete the survey of Tama County, Iowa. On September 1 Mr. Ely will join Mr. Bennett in the survey of Marshall County, Ind. On July 1 Mr. Hurst will join Mr. Root in the survey of Lancaster County, S. C.

11. Fippin, E. O., and Drake, J. A., will proceed to Wentzville, Mo., and survey the central part of the O'Fallon quadrangle. July 1 Mr. Fippin and Mr. Burgess will proceed to Cando, N. Dak., and survey as much as possible of Towner County. July 1 Mr. Drake will join Mr. Tharp in the survey of Allen County, Tex. September 20 Mr. Fippin will be furloughed for nine months. Mr. Burgess will join Mr. Tharp in the survey of Brown County, Kans.

12. Griffen, A. M., and Ruhlen, L. M., will proceed on October 1 to Hammond, La., and survey Tangipahoa Parish.

13. Hearn, W. E., and Carr, M. E., will continue the survey of Harrison County, Miss. Upon the completion of this area Mr. M. E. Carr will join Mr. W. E. McLendon at Bay City, Mich., for work in the Saginaw area. July 1 Mr. Hearn and Mr. Griffen will proceed to Ithaca, Mich., and survey the northern half of Gratiot County. Upon completion of this area the party will assist Mr. McLendon in the Saginaw area, Michigan. Upon completion of this area Mr. Hearn will report to Washington, D. C., Mr. Griffen will relieve Mr. Jones.

14. About July 1 Mr. Holmes and Mr. N. P. Neill will proceed to Greeley, Colo., and survey as large an area as possible of the irrigable lands around that point. October 1 the party will proceed to Fort Collins, Colo., and survey as large an area as possible of the irrigable lands.

15. Jensen, C. A., and Strahorn, A. T., will proceed to Brigham, Utah, and spend six months in surveying as large an area as possible of the irrigable lands in the Bear River Valley. On October 1 Mr. Jensen will be furloughed for eight months and Mr. Strahorn will join Mr. Drake in the survey of Webster County, Mo.

16. Jones, G. B., and Ruhlen, L. M., will continue the survey of De Soto Parish, Louisiana. October 1 Mr. Jones will report to Washington, D. C., for a three months' assignment. Mr. Ruhlen will join Mr. Griffen in the survey of Tangipahoa Parish, La.

17. Lapham, J. E., and Bennett, H. H., will proceed to Auburn, N. Y., and survey all of Cayuga County below latitude 43°. October 1 the party will proceed to Elizabeth City, N. C., and survey Perquimans and Pasquotank counties.

18. Lapham, M. H., and Mackie, W. W., will return to Sacramento, Cal. Upon the completion of the Sacramento area the party will survey other areas in California to be decided upon.

19. McLendon, W. E., and Carr, M. E., on July 1 will continue the survey of the Saginaw, Mich., area, comprising parts of Saginaw, Bay, Tuscola, and Huron counties, with headquarters at Saginaw. Upon the completion of this area Mr. McLendon and Mr. Mann will proceed to Montgomery, Ala., and survey Montgomery County. Mr. Carr will join Mr. Belden in survey of Saline County, Mo.

20. Mangum, A. W., and Neill, N. P., will proceed to Boonville, Ind., and survey parts of Begonia Springs, Boonville, and Owensboro U. S. G. S. sheets. The party will then proceed to Scottsburg, Ind., and survey Scott County. July 1 Mr. Mangum and Mann, Chas. J., will proceed to Corunna, Mich., and survey the northern part of Shiawassee County. Upon completion of this area the party will assist Mr. McLendon in the Saginaw, Mich., area. Upon completion of the area Mr. Mangum will report to Washington, D. C. Mr. Carr and Mr. Belden will survey Saline County, Mo. July 1 Mr. Neill will join Mr. Holmes in the survey of Greeley area, Colorado.

21. Marean, H. W., and McLendon, W. E., will proceed to Saginaw, Mich., about May 1, and begin the survey of the Saginaw area. On July 1 Mr. McLendon will take charge of the area, and Mr. Marean will make a special study of the soils with reference to the sugar beet industry. October 1 Mr. Marean will report to Washington, D. C. October 1 Mr. McLendon will join Mr. Mann in the survey of Montgomery County, Ala.

22. Martin, J. O., and Sweet, A. T., will continue the survey of the Platte River valley from Kearney to Lexington, Nebr. Upon the completion of this area Mr. Martin's connection with the Bureau will terminate and Mr. Sweet will be transferred to the Alkali Reclamation Service.

23. Mooney, C. N., and Ayrs, O. L., will proceed to Greeneville, Tenn., and survey the western two-thirds of the Greeneville U. S. G. S. sheet. July 1 the party will proceed to Lawrenceburg, Tenn., and survey Lawrence County. October 1 the party will proceed to Lexington, Tenn., and survey Henderson County.

24. Rice, T. D., and Geib, W. J., will proceed to Coshocton, Ohio, and survey Coshocton County. July 1 the party will proceed to Autrain, Mich., and survey as large an area as possible in Alger County. October 1 the party will proceed to Bowling Green, Ky., and survey Warren County.

25. Root, A. S., and Hurst, L. A., July 1 will proceed to Lancaster, S. C., and survey Lancaster County. October 1 this party will proceed to Red Springs, N. C., and survey the northern part of Robeson County.

26. Smith, W. G., and Meeker, F. N., will continue the survey of Sumter County, Alabama. Upon the completion of this county the party will proceed to Blount Springs, Ala., and survey Blount County. Upon the completion of this survey the party will proceed to Selma, Ala., and survey Dallas County.

27. Wilder, H. J., and Belden, H. L., will proceed to Vergennes, Vt., and survey the Port Henry and Ticonderoga U. S. G. S. sheets. July 1 the party will proceed to Gettysburg, Pa., and survey Adams County. October 1 Mr. Wilder will report to Washington, D. C., for a three months' assignment, while Mr. Belden will join Mr. M. E. Carr in the survey of Saline County, Mo.

MILTON WHITNEY,  
Chief of Bureau.

WASHINGTON, D. C., August 25, 1904.

*Approximate areas to be surveyed in 1904.*

State.	Area.	Sq. Mi.	Remarks.	Party.	
Alabama	Sumter County	2	910	Completed	Smith-Meeker.
Do.	Macon County	2	620	Completed	Wilder-H. H. Bennett.
Do.	Blount County	4	753	All of county	Smith-Meeker.
Do.	Dallas County	4	1,195	All of county	Smith-Meeker.
Do.	Montgomery County	4	772	All of county	McLendon-Mann.
Do.	Lauderdale County	4	400	Middle part of county.	F. E. Bonsteel-E. P. Carr
California	Bakersfield area	2	300	Completed	M. H. Lapham-Mackie.
Do.	Sacramento area	3	1,000	In progress	Jensen-Strahorn.
Do.	Other areas				M. H. Lapham-Mackie.
Do.	San Bernardino area	3	600	Completed	M. H. Lapham-Mackie.
Colorado	Ft. Collins area	2	500	In progress	Holmes party.
Do.	Greeley area	2	500	In progress	Holmes-Neill.
Florida	Gainesville area	3	500	Completed	Holmes-Neill.
Georgia	Decatur County	2	500	Completed	Rice-Geib.
Do.	Dodge County	4	414	Completed	Fippin-Drake.
Indiana	Marshall County	4	441	Completed	Ely-Griffen.
Do.	Boonville area	3	270	Completed	Bennett-Ely.
Do.	Scott County	4	190	Completed	Mangum-Neill.
Iowa	Tama County	1	768	Completed	Mangum-Neill.
Kansas	Allen County	3	504	Completed	Ely-Hurst.
Do.	Brown County	3	576	In progress	Drake-Tharp.
Do.	Garden City area	3	500	All of county	Burgess-Tharp.
Kentucky	Warren County	2	530	Completed	Coffey-Burgess.
Louisiana	De Soto Parish	2	865	All of county	Rice-Geib.
Do.	Tangipahoa Parish	2	780	In progress	Jones-Ruhlen.
Michigan	Alger County	1	500	All of parish	Griffen-Ruhlen.
Do.	Saginaw area	1	1,000	In progress	Rice-Geib.
Do.	Shiawassee area	1	290	In progress	McLendon-M. E. Carr.
Do.	Gratiot area	1	290	In progress	Mangum-Mann.
Mississippi	Biloxi area	2	600	In progress	Hearn-Griffen.
Do.	Jackson area	3	750	Completed	Hearn-M. E. Carr.
Missouri	Saline County	2	760	Completed	Martin-Ayrs.
Do.	O'Fallon quadrangle	3	750	All of county	M. E. Carr-Belden.
Do.	Webster County	2	630	Completed	Fippin-Drake.
Nebraska	Kearney area	3	500	All of county	Drake-Strahorn.
New York	Auburn area	3	500	Completed	Martin-Sweet.
Do.	Dryden area	3	250	In progress	J. E. Lapham-H. H. Bennett.
North Carolina	Perquimans and Pasquotank counties.		440	All of two counties.	J. A. Bonsteel.
Do.	Robeson County	2	500	All of county.	J. E. Lapham-H. H. Bennett.
North Dakota	Cando area	1	500	Northern part of county.	Root-Hurst.
Ohio	Coshocton County	1	550	In progress	Fippin-Burgess.
Do.	Wooster area	3	500	Completed	Rice-Geib.
Pennsylvania	Adams County	2	535	Completed	Caine-Lyman.
Rhode Island	State	3	1,085	In progress	Wilder-Belden.
South Carolina	Orangeburg area	2	700	In progress	F. E. Bonsteel-E. P. Carr
Do.	Lancaster County	2	535	Completed	F. Bennett-Griffen.
Do.	Charleston area	2	400	In progress	Root-Hurst.
Tennessee	Lawrence County	2	675	Completed	F. E. Bonsteel-E. P. Carr
Do.	Greeneville area	3	500	In progress	Mooney-Ayrs.
Do.	Henderson County	2	530	Completed	Mooney-Ayrs.
Texas	Austin sheet	3	500	All of county	Mooney-Ayrs.
Do.	San Antonio area	4	450	Completed	Mangum-Belden.
Do.	Anderson County	4	1,000	Completed	Caine-Lyman.
Do.	Houston County	2	1,200	Completed	Carter-Kocher.
Utah	Bear River Valley	2	250	All of county	Carter-Kocher.
Vermont	Champlain Valley	3	450	In progress	Jensen-Strahorn.
Virginia	Appomattox County	2	317	Completed	Wilder-Belden.
Do.	Gloucester County	2	245	All of county	Caine-Lyman.
Do.	Goochland quadrangle	3	600	In progress	Burke-Wheeler.
Do.	Warwick, <sup>2</sup> York, <sup>2</sup> Elizabeth City, <sup>1</sup> James City counties.	2	430	Part of sheet.	Burke-Wheeler.
Wisconsin	Superior area	4	500	Completed	Burke-Root.
				In progress	Caine-Lyman.

<sup>1</sup> Print of county map will be furnished.

<sup>2</sup> Plane table survey.

<sup>3</sup> Topographic sheet.

<sup>4</sup> Plane table to be used if reliable county map can not be obtained.

*Assignment of soil survey parties, 1904.*

Party.	April 1-July 1.	July 1-Oct. 1.	Oct. 1-Jan. 1.
Bennett, F.-Griffen	Orangeburg, S. C.		
Bennett-Ely			Marshall Co., Ind.
Bonsteel, F. E.-Carr, E. P.	Rhode Island	Rhode Island	Lauderdale Co., Ala.
Bonsteel, J. A.	New York	Dryden sheet, N. Y.	
Burke-Root	York Neck, Va.		
Burke-Wheeler		Gloucester Co., Va.	N. part of Goochland quadrangle, Va.
Burgess-Tharp			Brown Co., Kans.
Caine-Lyman	Wooster, Ohio	Superior, Wis.	Appomattox Co., Va.
Carr, M. E.-Belden			Saline Co., Mo.
Carter-Kocher	Anderson Co., Tex.	Anderson Co., Tex.	Houston Co., Tex.
Coffey-Burgess	Garden City, Kans.		
Drake-Tharp		Allen Co., Kans.	
Drake-Strahorn			Webster Co., Mo.
Ely-Hurst	Tama Co., Iowa		
Fippin-Drake	O'Fallon Quadr., Mo.		
Fippin-Burgess		Cando, N. D.	
Griffen-Ruhlen			Tangipahoa Par., La.
Hearn-Carr, M. E.	Biloxi area, Miss.		
Hearn-Griffen		Gratiot area, Mich.	
Hearn			Washington, D. C.
Holmes-Neill		Greeley area, Colo.	Fort Collins, Colo.
Jensen-Strahorn	Bear River Valley, Utah.	Bear River Valley, Utah.	
Jones-Ruhlen	De Soto Parish, La.	De Soto Parish, La.	
Jones			Washington, D. C.
Lapham, J. E.-Bennett, H. H.	Auburn area	Auburn area	Perquimans and Pasquotank counties, N. C.
Lapham, M. H.-Mackie	Sacramento area	Sacramento area	California.
McLendon-Carr, M. E.		Saginaw, Mich.	
McLendon-Mann			Montgomery Co., Ala.
Mangum-Neill	Boonville area and Scott County, Ind.		
Mangum-Mann		Shiawassee, Mich.	
Mangum			Washington, D. C.
Marean-McLendon	Saginaw, Mich.		
Marean		Michigan.	Washington, D. C.
Martin-Sweet	Kearney, Nebr.	Kearney, Nebr.	
Mooney-Ayrs	Greeneville, Tenn.	Lawrence Co., Tenn.	Henderson Co., Tenn.
Rice-Geib	Coshocton Co., Ohio	Autrain, Mich.	Warren Co., Ky.
Root-Hurst		Lancaster Co., S. C.	Robeson Co., N. C.
Smith-Meeker	Sumter Co., Ala.	Blount Co., Ala.	Dallas Co., Ala.
Wilder-Belden	Champlain Val., Vt.	Adams Co., Pa.	
Wilder			Washington, D. C.

NOTES.

On July 1 Mr. Wheeler was transferred from the Soil Management to the Soil Survey.

On July 1 Mr. Sweet was transferred from the Soil Survey to the Alkali Reclamation Service.

Mr. J. O. Martin has tendered his resignation which has been accepted to take effect September 1.

On September 20 Mr. Fippin will be granted a furlough for nine months for the purpose of attending Cornell University.

On October 1 Mr. Jensen will be granted a furlough for eight months for the purpose of attending the University of Nebraska.